

**Abstract**

The present invention includes a cellular wireless re-use communication system. The communication system includes a base transceiver station cluster. The base transceiver station cluster includes a first plurality of base station transceivers and a plurality of common channel areas. Each common channel area includes a unique set of common assigned channels. Each common channel area further includes at least one subscriber unit. Each subscriber unit within the common channel area receives information signals from a second plurality of base station transceivers through one of the set of common assigned channels that correspond to the common channel area. The common assigned channel includes common transmission characteristics. The common transmission characteristic can include a transmission frequency, a transmission time or a transmission code. The second plurality of base station transceivers can be physically located within the same common channel area that a corresponding subscriber unit receiving information from the second plurality of base station transceivers is located. Alternatively, at least one of the second plurality of base station transceivers can be physically located outside of the common channel area that a corresponding subscriber unit receiving information from the second plurality of base station transceivers is located.